

**Energy calculator SITRANS FUE950, MID or PTB K7.2 custody transfer approved**

7ME3480 - - - - -

**Flow input setting (In 0)**

(The pulse input value selection must be the same as the pulse output setting of the selected flowmeter)

Pulse input in l/pulse or in gal/pulse (with option L05)	Flow limit Q <sub>max</sub> in m <sup>3</sup> /h	Flow limit Q <sub>max</sub> in GPM *) (with option L05)	
1	360	6 000	(In l/p recommended selection for MAG: DN 2 ... 65 and FUS380/FUE380: DN 50 ... 65)
2.5	900	15 000	(In l/p recommended selection for MAG and FUS380/FUE380: DN 80 ... 125)
5	1 800	30 000	
10	3 600	60 000	(In l/p recommended selection for MAG and FUS380/FUE380: DN 150 ... 250)
25	9 000	150 000	
50	18 000	300 000	(In l/p recommended selection for MAG and FUS380/FUE380: DN 300 ... 400)
100	36 000	600 000	(In l/p recommended selection for MAG and FUS380/FUE380: DN 500 ... 1200)
250	90 000	-	(In gal/pulse and GPM not available)
500	180 000	-	(In gal/pulse and GPM not available)
1 000	360 000	-	(In gal/pulse and GPM not available)

\*) GPM = Gallons per minute

2 A  
2 B  
2 C  
3 A  
3 B  
3 C  
4 A  
4 B  
4 C  
5 A

**Calculator application/Flowmeter installation place**

- For heating, flowmeter in return pipe (cold pipe), typical standard
- For heating, flowmeter in forward pipe (hot pipe)
- For cooling, media water, flowmeter in forward pipe (cold pipe)
- For cooling, media water, flowmeter in return pipe (hot pipe)
- For combined cooling/heating, flowmeter in forward pipe (hot pipe as heating) (MID conformity declaration for heating)
- For combined cooling/heating, flowmeter in return pipe (cold pipe as heating) (MID conformity declaration for heating)

A  
B  
C  
D  
E  
F

**Temperature sensor type**

- Pt500 setup, no sensor pair included (standard)
- Pt500 setup and Pt500 sensor pair (6/140 mm), 4-wire with 5 m connection cable, 6 mm sensor diameter and 140 mm sensor length. MID approved DE-06-MI004-PTB011, PTB approved 22.77/09.01 (mentioned approvals are only valid if temp. sensors are used with the applicable temperature sensor pockets).
- Pt500 setup and Pt500 sensor pair (6/230 mm), 4-wire with 5 m connection cable, 6 mm sensor diameter and 230 mm sensor length. MID approved DE-06-MI004-PTB011, PTB approved 22.77/09.01 (mentioned approvals are only valid if temp. sensors are used with the applicable temperature sensor pockets).
- Pt100 setup, no sensor pair included

0  
3  
4  
5

**Temperature sensor pocket sets:** (for 6 mm sensor diameter)

- No pockets (standard)
- Stainless steel pocket, 120/135 mm length for 6 mm sensor diameter, max. PN 40 and max. 5 m/s (2 pcs. for 140 mm 4-wire sensors above)
- Stainless steel pocket, 210/225 mm length for 6 mm sensor diameter, max. PN 40 and max 5 m/s (2 pcs. for 230 mm 4-wire sensors above)

0  
5  
7

**Voltage supply**

- Battery 3.6 V DC (Lithium D-cell type) (standard)
- Mains power module for 230 V AC supply (incl. back-up battery)
- Mains power module for 24 V AC supply (incl. back-up battery)
- No power supply module (power supply ordering separate)

1  
2  
3  
4

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**Option modules at place 1 and 2**

No module at port 1 and 2 (standard)

A

Module on port 1 (communication)

M-Bus module and no module on port 2

B

RS232 module (M-Bus protocol) and no module on port 2

C

RS485 module (M-Bus protocol) and no module on port 2

D

Module on port 2 (pulse in-/outputs)

Pulse output, 2x output (Out1 "Energy" and Out2 "Volume") and no module on port 1

E

Pulse input, 2x input (In1 and In2) and no module on port 1

F

Pulse out-/input combination, 2x input and 1x output and no module on port 1

G

Combination of modules on port 1 and 2

M-Bus module (port 1) and Pulse output, 2x output (Out1 "Energy" and Out2 "Volume") (port 2)

H

M-Bus module (port 1) and Pulse input, 2x input (In1 and In2) (port 2)

J

M-Bus module (port 1) and Pulse out-/input combination, 2x input and 1x output (port 2)

K

RS232 module (M-Bus) (port 1) and Pulse output, 2x output (Out1 "Energy" and Out2 "Volume") (port 2)

L

RS232 module (M-Bus) (port 1) and Pulse input, 2x input (In1 and In2) (port 2)

M

RS232 module (M-Bus) (port 1) and Pulse out-/input combination, 2x input and 1x output (port 2)

N

RS485 module (M-Bus) (port 1) and Pulse output, 2x output (Out1 "Energy" and Out2 "Volume") (port 2)

P

RS485 module (M-Bus) (port 1) and Pulse input, 2x input (In1 and In2) (port 2)

Q

RS485 module (M-Bus) (port 1) and Pulse out-/input combination, 2x input and 1x output (port 2)

R

Combinations current output module, 2x passive 4 ... 20 mA (Out 1 "Power", Out 2 "Flow") (occupies module port 1 and 2)

S

**Display units and resolutions**

MWh & kW, m<sup>3</sup>, m<sup>3</sup>/h in 1 digit resolution; Temperature: no decimal figures

D

MWh & kW, m<sup>3</sup>, m<sup>3</sup>/h in 0 digit resolution; Temperature: no decimal figures

E

GJ & kW, m<sup>3</sup>, m<sup>3</sup>/h in 1 digit resolution; Temperature: no decimal figures

J

GJ & kW, m<sup>3</sup>, m<sup>3</sup>/h in 0 digit resolution; Temperature: no decimal figures

K

Gcal & kW, m<sup>3</sup>, m<sup>3</sup>/h in 1 digit resolution; Temperature: no decimal figures

N

Gcal & kW, m<sup>3</sup>, m<sup>3</sup>/h - in 0 digit resolution; Temperature: no decimal figures

P

Mbtu & kW, m<sup>3</sup>, m<sup>3</sup>/h in 1 digit resolution; Temperature: no decimal figures

R

Mbtu & kW, m<sup>3</sup>, m<sup>3</sup>/h - in 0 digit resolution; Temperature: no decimal figures

S

**Verification/Approval**

Without type approval mark, neutral label (standard))

0

With MID type approval mark (only for heating combinations, selection "A, B, E and F")

1

With MID approval mark and first verification (only for heating, selection A, B, E and F")

2

Cooling approval mark, German national cooling approval according PTB-TR-K7.2 (only for cooling and media water, selection "C and D")

7

Cooling approval mark, German national cooling approval according PTB-TR-K7.2 and first verification (only for cooling and media water, selection "C and D")

8

*Further designs*

Please add **"-Z"** to Order No. and specify Order code

**Certificate**

Including factory test report (certificate) of FUE950

**ALWAYS INCLUDED**

**Cooling, setup for non water**

Water/glycol setting for media type "Tyfocor LS (R)" (only with neutral label, no verification and approval)

**C 0 2**

**Optional settings/programming**

Tariff function settings (specify in clear text, up to max. 20 characters)

**D 0 2**

Pulse output setting of option module (specify in clear text, up to max. 20 characters)

**D 0 6**

Pulse input setting of option module (specify in clear text, up to max. 20 characters)

**D 0 8**

Pulse input setting of 4 ... 20 mA option module (please specify 20 mA related type and value in clear text, up to max. 20 characters)

**D 1 0**

**Special display units**

Flow in 'GPM' and Volume in 'gal' (x100) (digits/resolution as selected above, only with 0 digit resolution)

**L 0 5**

Temperature in deg. F (digit resolution as selected above)

**L 3 1**